



ANTI-SUBMARINING SEAT-BELT ASSEMBLY

CROSS REFERENCE TO RELATED APPLICATIONS

5 This is a divisional application of the US serial number 09/554,463 related to an international application number PCT/DE98/03270 (WO 99/24294, European Patent EP 1 037 773 B1, German Patent DE 197 49 780 C2) filed Nov. 10, 1998.

BACKGROUND OF THE INVENTION

1. Field of the Invention:

10 It is an object of the present invention to prevent a restrained passenger of a transport system (motor vehicle, ship, train or aeroplane) from submarining in the event of any accident (front-, side-, rear-end collision and/or rollover or pile up/mass collision) or during in-flight turbulence

2. Discussion of the Prior Art:

15 It is known in the prior art to provide for a passenger of a transport system an anti-submarining device in order to prevent severe/fatal injury in an accident.

In order to formulate in single terminology a generalized definition is presented for the proper term:

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Definition:

"Stiff first transport-system member"

"Stiff second transport-system member"

"Seat frame"

Proper Term:

Floor 6 of the transport system adjacent to a first seat-side SR (Fig. 1) or seat-cushion frame at the first seat-side or mid-tunnel (not drawn) of the motor vehicle adjacent to the first seat-side.

Floor 6 of the transport system adjacent to a second seat-side SL or seat-cushion frame at the second seat-side or post section (not drawn) of the motor vehicle adjacent to the second seat-side or side rail of the motor vehicle adjacent to the second seat-side

Seat-cushion frame or seat-backrest frame